Remote Rain Gauge with Outdoor Thermometer

Model: RGR126N

USER MANUAL

CONTENTS

PACKAGING CONTENTS

	
Main Unit	Rain Gauge
	
Thermo Sensor	Thermo Sensor Table Stand

INTRODUCTION

Thanks for purchasing the Oregon Scientific™ Remote Rain Gauge with Outdoor Thermometer (RGR126N).

NOTE Please keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know about.

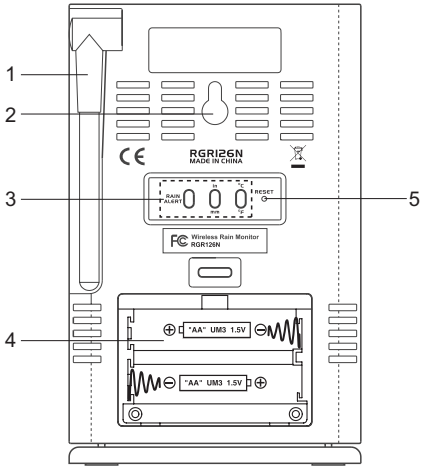
OVERVIEW

FRONT VIEW

1. Four-line LCD display: for displaying the total rainfall, current rainfall or rainfall history, indoor/outdoor temperature and clock/calendar.
2. **UP**: increase setting values; press and hold for rapid increase;
3. **HIST**: toggle between rainfall history and daily rainfall
4. **SINCE**: press to review the date when the measurement started and the total annual rainfall. Press and hold to clear the previous rainfall start time and reset the rainfall counter to start again.

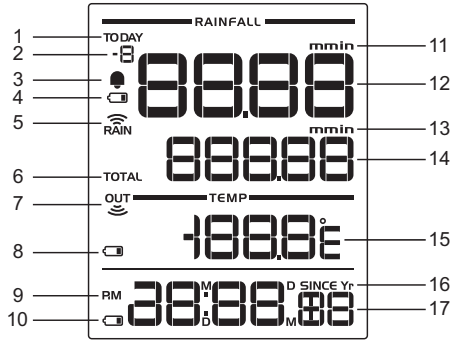
5. **SEARCH**: press and hold to enforce a search for the rain gauge and remote thermo sensor
6. **MODE**: change setting/clock display
7. **DOWN**: decrease setting values: press and hold for rapid decrease
8. Removable table stand: for securing the main unit on a flat surface

REAR VIEW



1. Antenna: receives radio signal from rain gauge and remote thermo sensor
2. Wall mount hole
3. **RAIN ALERT**: an alert for excessive rain
   In/**mm**: inch/millimeter (rain rate unit)
   ˚**C**/˚**F**: temperature unit
4. Battery compartment
5. **RESET**: reset the unit to default settings

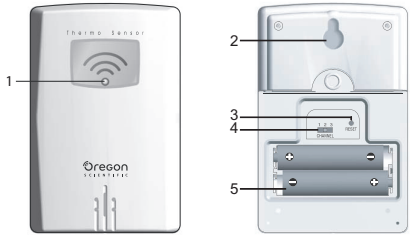
LCD DISPLAY



1. **TODAY**: today's rainfall indicator
2. Indicates on which previous day (1-9) is the displayed data recorded

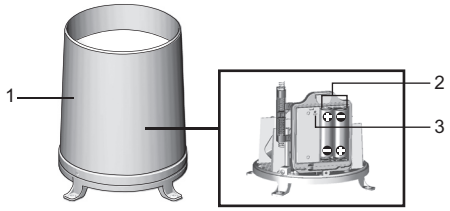
3. Rainfall alert indicator
4. : remote rain gauge sensor battery low
5. RAIN: rain gauge RF reception status
6. **TOTAL**: rainfall indicator
7. OUT: outdoor thermo RF reception status
8. : outdoor remote sensor battery low
9. **AM/PM**
10. : main unit battery low
11. **mm/in:** millimeter/inch (rain rate unit)
12. Today's rainfall
13. **mm/in:** millimeter/inch (rain rate unit)
14. Total rainfall
15. Outdoor temperature
16. **SINCE**: start date of the accumulated rainfall **Yr**: year
17. Time display; **M**:**D** (month: day); **D**:**M** (day: month); calendar

REMOTE SENSOR (THN802)

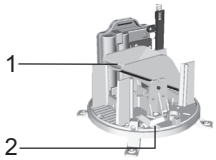


1. LED status indicator
2. Wall mount hole
3. **RESET** hole
4. **CHANNEL** switch (**1**,**2**,**3**)
5. Battery compartment

RAIN GAGUE (PCR800)



1. Rain gauge
2. Battery compartment
3. **RESET** button



1. Funnel
2. Indicator

GETTING STARTED

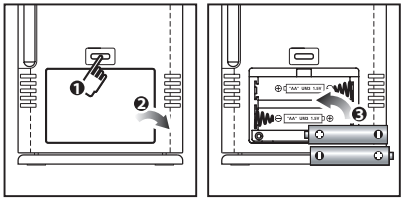
Position the main unit, rain gauge, and thermo sensor within effective range:

- Rain gauge – 100 meters/329 feet
- Thermo sensor – 100 meters/329 feet

IMPORTANT It is recommended that you follow the sequence below while setting up the units:

1. Set up the main unit.
2. Set up the rain gauge, then press and hold **SEARCH** on the main unit and wait until you receive a signal.
3. Set up the thermo sensor, then press and hold **SEARCH** on the main unit and wait until you receive a signal.
4. In the event that you do not obtain a signal from a remote unit please repeat the process above.

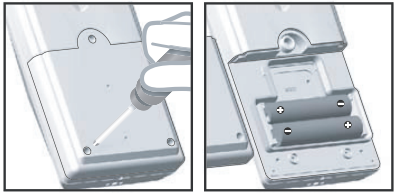
MAIN UNIT - BATTERIES INSTALLATION



1. Insert the batteries, matching the polarity (**+/-**) as shown in the battery compartment.
2. Press **RESET**, or press and hold **SEARCH** on the main unit to initiate operation. The reception icons (RAIN and OUT) on the main unit will blink while it is searching for the sensor or rain gauge.

NOTE The main unit returns to default settings in each battery replacement.

REMOTE SENSOR - INSERT BATTERIES



1. Remove the battery compartment cover by screw driver.
2. Insert the batteries, matching the polarities (**+/-**).
3. Press **RESET** after each battery change.

LOCATION	MEANING
Rainfall area	Rain collector sensor batteries low
Outdoor temperature area	Outdoor sensor batteries low
Clock area	Main unit batteries low

NOTE Use alkaline batteries for longer usage and consumer grade lithium batteries in temperatures below freezing.

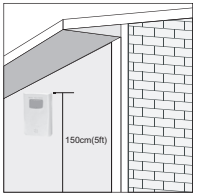
REMOTE SENSOR

The main unit can collect data from up to two (2) sensors, including one rain gauge and one outdoor thermo sensor.

To set up the sensor:

1. Open the battery compartment.
2. Select a channel then press **RESET**.
3. Close the battery compartment cover.
4. Place the sensor within 100 m (329 ft) of the main unit using the table stand or wall mount.

TIP For accurate readings, ideal placements for the sensor would be in any location on the exterior of the home at a height of no more than 1.5 m (5 ft); and can shielded it from direct sunlight or wet conditions.



SENSOR DATA TRANSMISSION

To search for a sensor:

- Press and hold **SEARCH**.
- The sensor reception icon in the remote sensor area shows the status (see below).

ICON	DESCRIPTION
OUT → OUT	A channel has been found.
OUT → OUT → OUT → OUT	Main unit is searching for sensor(s).
OUT	The sensor cannot be found.

TIP The transmission range may vary depending on many factors. You may need to place the sensor(s) in different locations to get the best result.

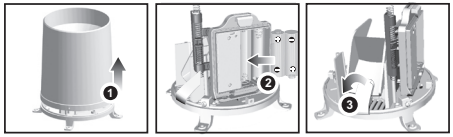
RAIN GAUGE

The rain gauge collects rain and takes readings of rainfall rate and the total rainfall over a period of time. The sensor can remotely transmit data to the main unit.

The main unit and rain gauge should be positioned within an effective range: about 100 m (329 ft) in an open area.

The rain gauge should be mounted horizontally about one meter (three feet) from the ground in an open area away from tress or other obstructions to allow rain to fall naturally for an accurate reading.

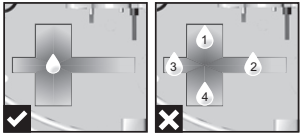
To set up a rain gauge:



1. Remove screws and slide the cover off in an upwards motion,
2. Insert the batteries (2 x UM-3/AA), matching the polarities (**+/-**). Press **RESET** after each battery change.
3. Remove the fiber tape.

To ensure a level plane:

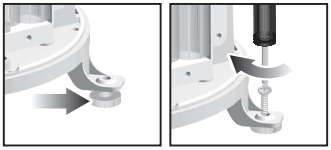
Put a few drops of water on the cross at the base of the funnel to check the horizontal level.



Water will pool to the center of the cross when the rain gauge is level.

If water remains on 1-4, the gauge is not horizontal.

If necessary, adjust the level using the screw.



NOTE For best results, ensure the base is horizontal to allow maximum drainage of any collected rain.

SIGNALS

To search for the rain collector:

- Press and hold **SEARCH**.

The remote rain collector reception indicator in the rainfall area shows the status:

ICON	DESCRIPTION
RAIN	No signal.
RAIN (flash)	Searching for signal.
RAIN → RAIN → RAIN	Signal connected.

TIP The transmission range may vary depending on many factors. You may need to place the sensor(s) in different locations to get the best result.

CLOCK

MANUALLY SET CLOCK

1. Press and hold **MODE**.
2. Press **UP** or **DOWN** to change the settings.
3. Press **MODE** to confirm.
4. The settings order is: 12/24 hr format, hour, minute, year, calendar mode (day-month/month-day), month, day and language.

NOTE The language options are English (**E**), German (**D**), French (**F**), Italian (**I**), and Spanish (**S**).

To select display mode:

- Press **MODE** to choose between clock with seconds/weekday/calendar.

RAINFALL

Today's rainfall appears on the first line of the display.

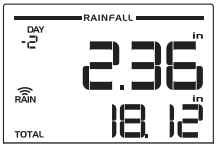
Press **in/mm** to toggle between inches and millimeters.

RAINFALL HISTORY

The rainfall history is displayed on the first row of the display. The main unit can record and store up to nine days of rainfall.

To display the record for a particular day:

- Press **HIST** to toggle between daily rainfall and rainfall history over the past nine days. The day of the record will be displayed with a minus (-) sign at the top left hand corner. **TODAY** means the record is for the current day.



NOTE Other sensors using the 433 MHz transmission frequency may influence the rainfall reading. Please avoid placing those sensors too close to the unit.

TOTAL RAINFALL

The total rainfall is displayed on the second line of the display.

To display the commencing date of the total rainfall record:

- Press **SINCE**. The date will appear on the bottom line of the display.

To clear the existing commencing date and reset it to start again:

- Press and hold **SINCE**. The total rainfall and today rainfall will be reset to zero and then collect the rainfall data starting from today.

RAINFALL ALERT

To set the rainfall alert value:

1. Press and hold **RAIN ALERT** to enter setting mode.
2. Press **UP** or **DOWN** to toggle values.
3. Press **RAIN ALERT** to confirm. indicates rainfall alert function is enabled.

To deactivate rainfall alert:

- The rainfall alert will be activated when the rainfall is equal to or more than the rainfall alert value; will flash continuously.
- To deactivate the rainfall alert, press **RAIN ALERT** twice and wait for 8 seconds, or increase the rainfall alert value.

TEMPERATURE

To toggle temperature unit:

- Press between ˚**C** / ˚**F**.

RESET

Press **RESET** to return to the default settings.

NOTE The main unit returns to default settings in each battery replacement.

PRECAUTIONS

- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not cover the ventilation holes with any items such as newspapers, curtains, etc.
- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials.
- Do not tamper with the unit's internal components. This invalidates the warranty.
- Only use fresh batteries. Do not mix new and old batteries.
- Images shown in this manual may differ from the actual display.
- When disposing of this product, ensure it is collected separately for special treatment and not as household waste.
- Placement of this product on certain types of wood may result in damage to its finish for which Oregon Scientific will not be responsible. Consult the furniture manufacturer's care instructions for information.
- The contents of this manual may not be reproduced without the permission of the manufacturer.
- Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Please note that some units are equipped with a battery safety strip. Remove the strip from the battery compartment before first use.

NOTE The technical specifications for this product and the contents of the user manual are subject to change without notice.

NOTE Features and accessories will not be available in all countries. For more information, please contact your local retailer.

SPECIFICATIONS

TYPE	DESCRIPTION
MAIN UNIT	
Dimensions (L x W x H)	93 x 68 x 30mm (3.66 x 2.68 x 1.18 in)
Weight	96g (3.39 ounces) including battery
Temperature range	-5°C to 50°C (23°F to 122°F)
Temperature resolution	0.1°C (0.2°F)
Signal frequency	433 MHz
Power	2 x UM-3(AA) 1.5V batteries

REMOTE THERMO SENSOR (THN802)	
Dimensions (L x W x H)	96 x 50 x 22mm (3.78 x 1.97 x 0.87 in)
Weight	62g (2.22 ounces)
RF transmission range	100 meters (329 feet)
Temperature range	-30°C to 60°C
Temperature resolution	0.1°C (0.2°F)
Number of channel	3
Power	2 x UM-4 (AAA) 1.5V batteries
REMOTE RAIN GAUGE (PCR800)	
Dimensions L x W x H	114 x 114 x 145 mm (4.5 x 4.5 x 5.7 inches)
Weight	241 g (8.5 oz) without battery
Transmission range	100m (329 ft) unobstructed
Power	2 x UM-3 (AA) 1.5V

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Visit our website www.oregonscientific.com to learn more about Oregon Scientific products.

For any enquiry, please contact our Customer Services at info@oregonscientific.com.

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EU - DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that Remote Rain Gauge with Outdoor Thermometer (model: RGR126N) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

COUNTRIES RTTE APPROVED COMPLIED
All EU countries, Switzerland (CH) and Norway (N)

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at www.oregonscientific.com), or on the warranty card for this product) for all inquiries instead.

We

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	UNIT B-2 Tualatin, Or 97062 USA
Telephone No.:	1-800-853-8883

Declare that the product

Product No.:	RGR126N
Product Name:	Remote Rain Gauge with Outdoor Thermometer
Manufacturer:	IDT Technology Limited
Address:	Block C, 9/F, Kaiser Estate,
	Phase 1, 41 Man Yue St.,
	Hung Hom, Kowloon,
	Hong Kong